



thermokon®

Keep in touch with the future



Products

2012·2013

World Edition





Thermokon at a Glance

- 1987** Company foundation in Mittenaar
- 1994** New building in Aarstr. 6 in Mittenaar
- 1997** Extension of company building
- 2000** Extension of company building to 2000 sqm office and production space
- 2007** Extension of the building by 600 sqm
- 2011** Another extension of the building by 600 sqm

Foundation of subsidiaries:

- 1998** Thermokon Components GmbH Austria
- 2002** Thermokon-Danelko Elektronik AB Sweden
- 2011** Thermokon Automation Equipment Co. Ltd., China

Managing Directors: H. Zygan & J. Teichmann **Number of employees:** 130

Export Initiative Energy Efficiency

Thanks to energy-efficient products and services in the field of energy efficiency, Thermokon also contributes internationally to a safe and cost-effective energy supply, which is of paramount importance to the climate protection.

Thermokon: We build the future – by sensors made in Germany!



25 Years of Energy-efficient Technology at Highest Stage



Thermokon has committed to a responsible use of natural resources and the climate protection. By means of energy-efficient sensors we are contributing actively to a lasting reduction of the CO₂ emission.

Long-Standing Experience in Technology

Thermokon offers 25 years of international know-how in technology and market experience. Thanks to the core expertise in the field of sensors for heating systems and buildings, our technical know-how can be found in all our products and meets highest demands on technology and quality.

Strong Export Business

Worldwide presence in the global market is guaranteed by having a headquarter in Germany, branches in Austria, Sweden and China and sales offices as well as various distributors in many parts of the world. Thermokon's portfolio is exported to more than 80 countries.

Lasting Performance – Continuous Development

Ever since Thermokon was founded, the main pillars of our success in the international market have been a lasting performance and achievement potential as well as continuous further development of our portfolio. Besides new innovative product concepts also redesigns and further developments of existing products towards their marketability are of paramount importance.

Flexibility, Efficiency, Sustainability

Nowadays, the topic “sustainability” is of paramount importance for strategic corporate planning. In the field of building automation, the idea of “green buildings” is omnipresent and stands for a sustainable and energy-efficient use of existing resources in buildings. Besides flexibility and efficiency, the top requirements on functional buildings are also potentials for energy savings.

The complete portfolio of Thermokon is designed for intelligent and sustainable buildings which shall make it to premium classifications according to the directives DIN EN 15232, LEED or Green Star.

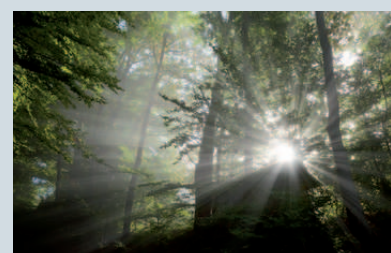
We are pleased to support our customers to select appropriate products for high energy-efficient buildings.

High-Grade Materials – Best Quality

Thanks to a close cooperation with our German partners only high-tensile plastics and stainless steel are used. Last but not least we are guaranteeing best accuracy and compliance with highest safety classes in premium quality which is approved regularly by the certification DIN EN ISO 9001



» Managing Director
Harald Zygan



Intelligent and Interoperable System Integration for high Energy Efficiency in Buildings

Interoperable System Integration

For a high energy efficiency in buildings, the system integration is a fundamental precondition.

Hereby the basis for an intelligent and interoperable interaction of all components is formed and a synergy is enabled to create energy-efficient and eco-friendly buildings.

Our membership in the organizations of the progressive BUS systems guarantees a continuous exchange of intelligent, innovative and interoperable technologies.



EnOcean Alliance

Thanks to the creation of interoperable system solutions based on low-power RF technology, the EnOcean Alliance contributes to make buildings more energy-efficient, more flexible and more cost-effective.



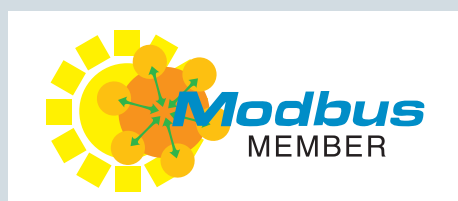
LONMark Germany / International

Promotion of diffusion process of LON technology and further development of technology and applications. Extension of markets for LON.



BIG-EU BACnet Interest Group

Promotion of diffusion process of BACnet-standards in Europe. Representation of European interests in the further developments of norms.



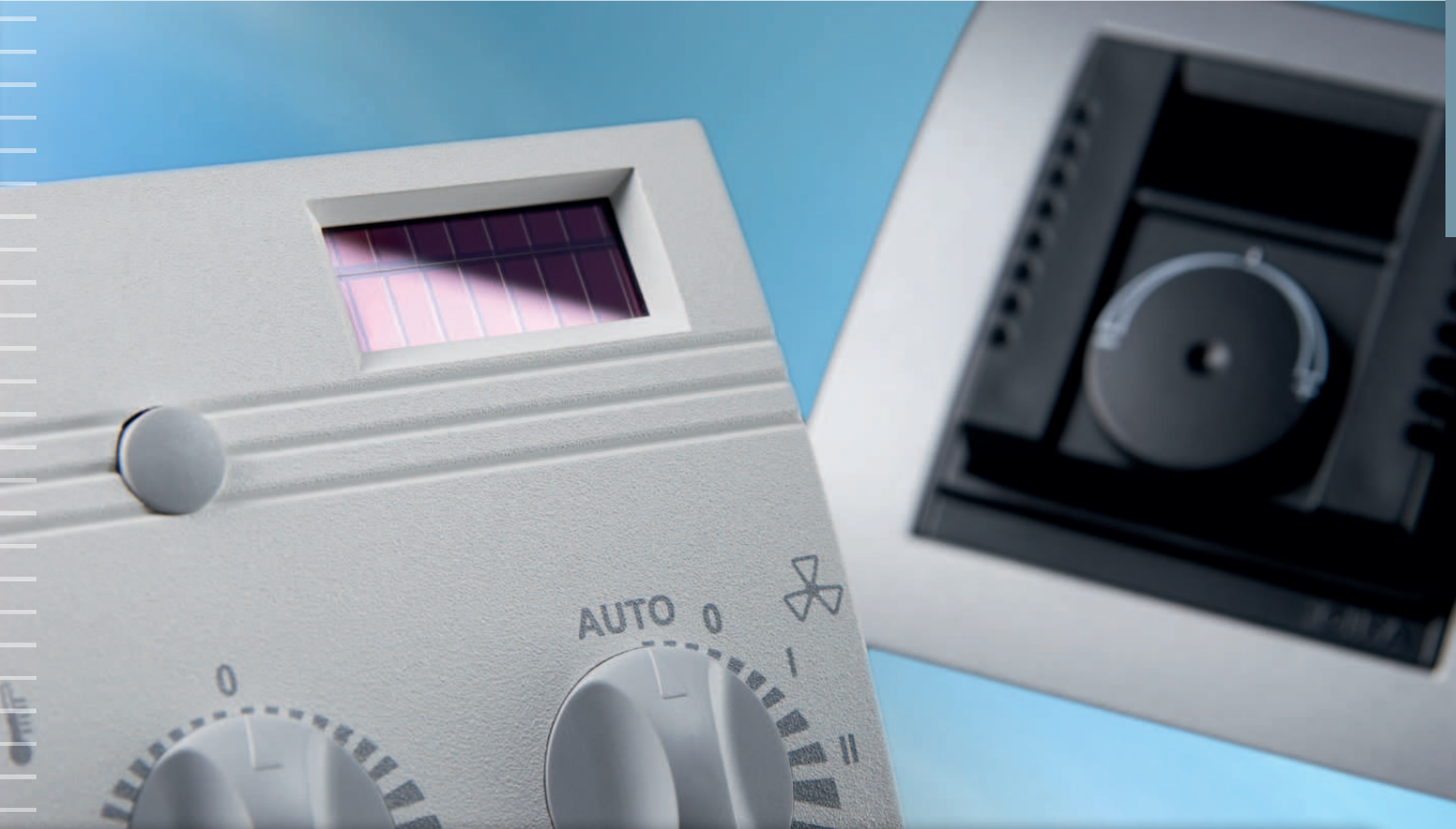
Modbus Organization

Taking over of Modbus communication protocol and development of a local build-up for automation systems via Modbus to focus on different market segments.



KNX-Association

Promotion of the development of home and building systems in general and of KNX as an open standard for home and building automation.



EasySens®

Innovative wireless technology enabling the harvest of ambient light. Interoperable, cost-effective and energy-efficient solutions in the building automation can be easily realized by our wireless sensor system EasySens.

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» EasySens – Wireless Sensor System

Innovative wireless solar technology enables the harvesting of ambient light sources for temperature and fan control in buildings.

Time-consuming installation works such as wiring or cabling including chiselling become unnecessary. Low material costs and time saving enable reasonable priced system solutions.

EasySens offers significantly more flexibility with regard to the sensor location. Thus, a variable room layout in modern buildings does not present any problems at all.

Even in heritage protected buildings in which no architectural changes are allowed, the integration of sensors for the air-conditioning technology can be easily enabled.

The EasySens system uses a fixed data frame according to the EnOcean (IEC-Standard 14543-3-10). Thus, it is guaranteed that the wireless sensors and receivers by Thermokon can be combined with devices of other manufacturers without any problems.

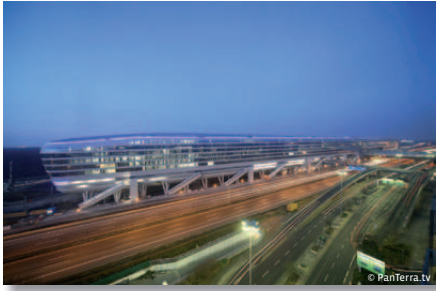
There are different devices for temperature monitoring, relative humidity, light, set point adjustment and status detection.

Among others, the receivers are available with LON-, EIB/KNX-, RS485-, BACnet- or MPBus-interface and are designed as a gateway for superior control systems. Connection to other bus systems are feasible without any problems.

Advantages at a Glance

- **No batteries, thus almost maintenance-free**
- **Easy installation, no wiring**
- **Flexibility with modernisations**
- **Direct mounting at representative measuring points**
- **Cost-effective system solutions**
- **Safe radio transmission in 868MHz-frequency range 315MHz also available (for US market)**
- **Minimal transmitting power (10mW) with safe transmission**
- **Transmitting range up to 30m in buildings and up to 300m in free field**
- **Saving of environment and resources**
- **Interoperable**
- **International standard (IEC 14543-3-10)**





THE SQUAIRE
FRANKFURT, GERMANY



MUSEUM FOLKWANG
ESSEN, GERMANY



AIRPORT FRANZ JOSEF STRAUSS
MUNICH, GERMANY



EUROPEAN PATENT OFFICE
MUNICH, GERMANY



LIEBFRAUENKIRCHE
(WORLD CULTURAL HERITAGE)
TRIER, GERMANY



PRIME TOWER
ZURICH, SWITZERLAND



JEBEL ALI HOTEL
DUBAI, UAE



UNIQA TOWER
VIENNA, AUSTRIA



ASCOT RACECOURSE
ASCOT, ENGLAND



4 TOWERS BUSINESS AREA
MADRID, SPAIN



GRENSEVEIEN,
OSLO, NORWAY



UNIVERSITY OF CANTERBURY
CHRISTCHURCH, NEW ZEALAND

» EasySens – Touch Room Operating Panel thanos



thanos L black



thanos S white

Application

The touch room operating panel **thanos** is designed for detection of temperature and humidity as well as integrated operation of HVAC, lighting and blinds applications for single room control. Thanks to high-graded optics, the device is specially ideal for design-oriented applications. The operating functions can be flexibly adapted to the most different room layouts.

Functions and Features at a glance:

- 868MHz (for the European market) or 315MHz
- Control of automated HVAC applications by simple touch
- Temperature and humidity detection
- For wireless communication an EnOcean based interoperability (bidirectional) is given
- Connection to LON, BACnet, Modbus or KNX
- Touch surface made of glass for intuitive operation
- High resolution of 3,5"-TFT graphic display
- Anodised aluminium function clip
- Configuration via SD card
- Power supply 110-230V



TOUCH ROOM OPERATING PANEL		Stand-Alone
thanos SR		PG2
EasySens wireless		
Type	Sensor	Wireless
SR L white / black	Temperature	
SR LQ white / black	Temperature	
SR S white / black	Temperature	
SR rH L white / black	Temperature / humidity	
SR rH LQ white / black	Temperature / humidity	
SR rH S white / black	Temperature / humidity	

TOUCH ROOM OPERATING PANEL		Gateway-Function			
thanos SR		PG2			
BUS + EasySens wireless (868MHz)*		BUS-System			
Type	Sensor	LON	BACnet	Modbus	KNX
SR L white / black	Temperature				
SR LQ white / black	Temperature				
SR S white / black	Temperature				
SR rH L white / black	Temperature / humidity				
SR rH LQ white / black	Temperature / humidity				
SR rH S white / black	Temperature / humidity				

Accessory: SD card 10,94 €

*315MHz on request

For technical details and further types please see 46/47

thanos®



SR04



SR04P MS



SR04PST

TYPES AVAILABLE

Type	Operating elements
SR04	No operating elements
SR04P	Set point adjuster
SR04T	Presence button
SR04P MS	Set point adjuster, slide switch
SR04PT	Set point adjuster, presence button
SR04PS	Set point adjuster, fan stage adjuster
SR04PST	Set point adjuster, fan stage adjuster, Presence button

TECHNISCHE DATEN

Measuring range	0°C...+40°C
Accuracy	Typ. ±0,4K
Data logging	Every 100 seconds
Transmission interval	Every 100 seconds with changes >0,8K or angle of rotation set point adjuster >3° or circuit stage rotary or slide switch. Every 1000 sec. with changes <0,8K or angle of rotation <3°.
Set point adjuster (P)	Rotation angle 0...270°; resolution 1,1°
Rotary switch (S)	Max. 5 (e.g. Auto, 0, I, II, III)
Slide switch (MS)	Max. 2 circuit stages (e.g. 0, 1)
Enclosure	Material ASA, colour pure white similar to RAL9010, mountable on standard flush-mounting box, housing bottom can be pre-mounted separately from housing cover
Ambient temperature	-25°C...+65°C
Protection	IP30
Norms and standards	FCC, IC, Japan
Notice	As a standard, the devices are supplied with integrated battery holder. Special legends feasible (see page 225)

ROOM SENSORS/ ROOM OPERATING PANELS

SR04			PG1
Type	Art. No. 868MHz*	Art. No. 315MHz	
SR04	228848	389006	
SR04P	226172	397735	
SR04T	229968	397742	
SR04P MS	312219	397759	
SR04PT	227353	397766	
SR04PS	250900	397773	
SR04PST	226851	397797	

* for the European market

ACCESSORY

SR04		PG1
Description	Art. No.	
Battery LS14250 – transport by air not possible (IATA DGR, Dangerous Goods Regulations)	315098	

» EasySens – Room Sensors / Operating Panels Temperature



SR06 pure white,
Gira Esprit Glass



SR07P pure white,
Gira Event aluminium



SR07PS anthracite,
Gira Event aluminium

TYPES AVAILABLE

Type	Operating elements
SR06	No operating elements
SR07P	Set point adjuster, presence button
SR07P MS	Set point adjuster, slide switch

TECHNICAL DATA

Measuring range	0°C...+40°C
Accuracy	Typ. ±0,4K
Data logging	Every 100 seconds
Transmission interval	Every 100 seconds with changes >0,8K or angle of rotation set point adjuster >3° or circuit stage rotary and slide switch. Every 1000 sec. with changes <0,8K or angle of rotation <3°.
Set point adjuster (P)	Rotation angle 0...270°; resolution 1,1°
Slide switch (MS)	Max. 2 circuit stages (e.g. day, night)
Enclosure	Material PC
Colours available	Pure white, anthracite, aluminium
Ambient temperature	-25°C...+65°C
Protection	IP20
Notice	As a standard, the devices are supplied with integrated battery holder

Insert with intermediate frame is **compatible to frames** with **55x55mm insert** of the following switch manufacturers:

Berker: S1, B1, B3, B7 Glas

Gira: Standard 55, E2, Event, Esprit

Jung: A500, AS500, Aplus

Merten: M-Smart, M-Arc, M-Plan

Peha: Aura

Siemens: Delta-Profil, Delta-Style, Delta-Miro, Delta-Vita, Delta-Line

Please specify switch programme and colour when placing an order!

ROOM SENSORS / ROOM OPERATING PANELS

SR06 / SR07 (incl. frame Gira E2)

PG1

Type	Art. No.	868MHz
SR06 pure white	298162	
SR06 anthracite	298186	
SR06 aluminium	298216	
SR07P pure white	298230	
SR07P anthracite	298254	
SR07P aluminium	298278	
SR07P MS pure white	298292	
SR07P MS anthracite	298315	
SR07P MS aluminium	298339	

ACCESSORY

SR06 / SR07

PG1

Description	Art. No.
Coin cell CR2032	347013



SR04 rH



SR04P MS rH



SR04PT rH

TYPES AVAILABLE

Type	Operating elements
SR04 rH	No operating elements
SR04P rH	Set point adjuster
SR04P MS rH	Set point adjuster, slide switch
SR04PT rH	Set point adjuster, presence button

TECHNICAL DATA

Measuring range temp.	0°C...+40°C
Accuracy	Typ. ±0,4K
Measuring range hum.	0...100%rF
Accuracy	Typ. ±3% between 35...75%rF
Data logging	Every 100 seconds
Transmission interval	Every 100 seconds with changes >0,8K or >1,6%rH or angle of rotation set point adjuster >14° or circuit stage rotary and slide switch. Every 1000 sec. with changes <0,8K or <1,6%rH or angle of rotation <14°.
Set point adjuster (P)	Rotation angle 0...270°; resolution 1,1°
Slide switch (MS)	Max. 2 circuit stages (e.g. day, night)
Enclosure	Material ASA, colour pure white similar to RAL9010, mountable on standard flush-mounting box, housing bottom can be pre-mounted separately from housing cover
Ambient temperature	-25°C...+65°C
Protection	IP30
Norms and standards	FCC, IC, Japan
Notice	As a standard, the devices are supplied with integrated battery holder. Special legends feasible (see page 225)

ROOM SENSORS / ROOM OPERATING PANELS

SR04 rH			PG1
Type	Art. No. 868MHz*	Art. No. 315MHz	
SR04 rH	252317	389013	
SR04P rH	252331	397803	
SR04P MS rH	361644	397810	
SR04PT rH	261593	397827	

* for the European market

ACCESSORY

SR04 rH			PG1
Description			Art. No.
Battery LS14250 – transport by air not possible (IATA DGR, Dangerous Goods Regulations)			315098

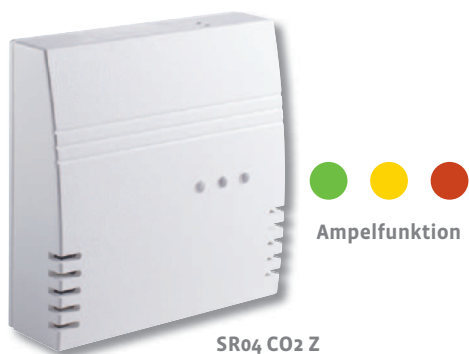
» EasySens – Room Sensor CO₂/Temperature/Humidity



SR04 CO₂



SR04 CO₂ LCD



SR04 CO₂ Z

● ● ●
Ampelfunktion

TYPES AVAILABLE

Type	Description
SR04 CO ₂	For measuring of CO ₂ concentration and temperature.
SR04 CO ₂ LCD	For measuring of CO ₂ and temperature. With LCD for display of measuring values.
SR04 CO ₂ Z	For measuring of CO ₂ , and temperature. With 3 LEDs for indication of air quality (traffic light function).
SR04 CO ₂ rH	For measuring of CO ₂ , temperature and relative humidity.
SR04 CO ₂ rH LCD	For measuring of CO ₂ , temperature and relative humidity. With LCD for display of measuring values.
SR04 CO ₂ rH LCD Z	For measuring of CO ₂ , temperature and relative humidity. With LCD for display of measuring values and 3 LEDs for indication of air quality (traffic light function).

TECHNICAL DATA

CO ₂ -Sensor	NDIR (non dispersive infrared), no calibration necessary (see page 198)
Measuring range CO ₂	0...2.550ppm
Accuracy CO ₂	±40ppm+4% vom Messwert (bei 21°C)
Measuring range Temp	0°C...50°C
Accuracy temperature	Typ. 1% of measuring range
Meas. range humidity	0...100%rH
Accuracy humidity	Typ. ±3% between 20...80%rH
Ambient humidity	>85%rH
Ambient temperature	0°C...50°C
Power supply	15-24V= (±10%) orr 24V~ (±10%)
Power consumption	Max. 1,5W/3,6VA
Terminal clamp	Screwing terminal, max. 1,5mm ²
Housing	Material ASA, colour pure white similar to RAL9010, mountable on standard flush-mounting box, housing cover can be mounted separately from housing bottom
Protection	IP20

ROOM SENSOR CO₂/TEMPERATURE/HUMIDITY

SR04 CO ₂	PG1	
Type	Art. No. 868MHz*	Art. No. 315MHz
SR04 CO ₂	442510	500319
SR04 CO ₂ LCD	467131	504126
SR04 CO ₂ Z	436557	504164
SR04 CO ₂ rH	434768	491815
SR04 CO ₂ rH LCD	462228	504133
SR04 CO ₂ rH LCD Z	474757	504140



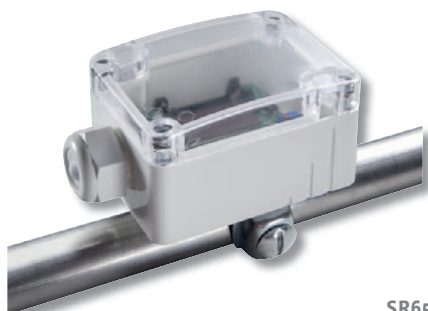
SR65



SR65 AKF



SR65 TF



SR65 VFG

TYPES AVAILABLE	
Type	Description
SR65	Outdoor temperature sensor
SR65 AKF	Duct temperature sensor (mounting length 135mm)
SR65 TF	Cable temperature sensor (connecting wire 1m, mounting length 50mm)
SR65 VFG	Pipe contact temperature sensor

TECHNICAL DATA	
Measuring range	SR65/SR65 TF: -20°C...+60°C SR65 AKF: +10°C...+90°C SR65 VFG: +10°C...+90°C
Accuracy	Typ. ±0,8K
Data logging	Every 100 seconds
Transmission interval	Every 100 seconds with changes >1,6K Every 1000 seconds with changes >1,6K
Enclosure	Material PA6, colour white (bottom) Material PC, colour crystal clear (cover)
Sensor pocket	SR65: stainless steel 1.4571, ø=6mm, L=40mm SR65 AKF: stainless steel 1.4571, ø=7mm, L=135mm SR65 TF: stainless steel 1.4571, ø=6mm, L=50mm SR65 VFG: brass, spring mounted sensor contact
Ambient temperature	-25°C...+65°C
Protection	IP65
Norms and standards	FCC, IC, Japan
Notice	As a standard, the devices are supplied with integrated battery holder. Other measuring ranges on request SR65 AKF: Other mounting lengths on request SR65 TF: Other mounting and cable lengths on request

TEMPERATURE SENSORS			
SR65 / SR65 AKF / SR65 TF / SR65 VFG			PG1
Type	Art. No. 868MHz*	Art. No. 315MHz	
SR65	230001	397834	
SR65 AKF, mounting l. 135mm	254632	397841	
SR65 TF, moun. l. 50mm, cable 1m	245647	397858	
SR65 VFG	239615	397865	

* for the European market

ACCESSORY	
SR65 / SR65 AKF / SR65 TF / SR65 VFG	
Description	Art. No.
Batterie LS14250 – transport by air not possible (IATA DGR, Dangerous Goods Regulations)	315098



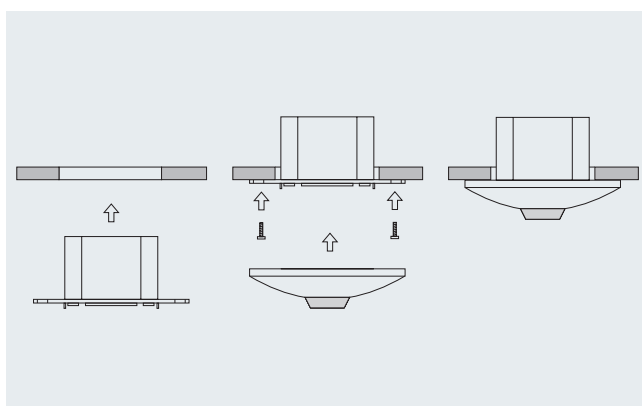
» EasySens – Ceiling Multi Sensor (battery-powered, 24V or 80-240V)

TYPES AVAILABLE	
Type	Description
SR-MDS BAT	Ceiling multi sensor for detection of light and motion, power supply via 3 batteries LS14250 (life expectancy >10 years)
SR-MDS 24V	Ceiling multi sensor for detection of light and motion, power supply 24V AC/DC
SR-MDS Netzspannung/ Mains	Ceiling multi sensor for detection of light and motion, power supply 80-240VAC



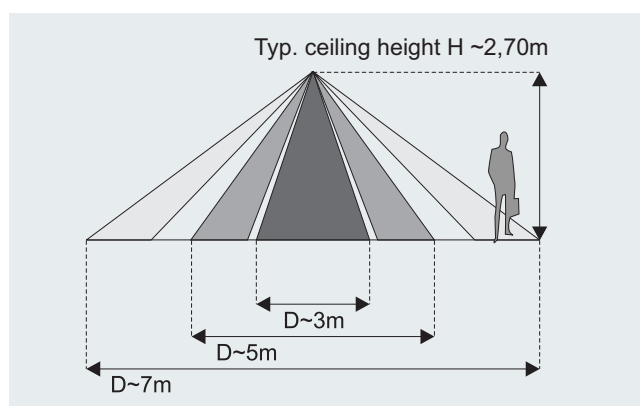
SR-MDS

Installation



TECHNICAL DATA	
Function	Wireless transmission of meas. signal
Measuring range	0...512Lux
Detection of motion	PIR (passive infrared)
Detection of measuring values	Every 100 seconds, if movement is detected every 10 seconds
Transmission interval	Every 100 seconds if brightness changes >10Lux, provided no movement is detected Every 1000 seconds if brightness changes >10Lux, provided no movement is detected Every 100 seconds if brightness changes <10Lux, provided no movement is detected Every 10 seconds if brightness changes <10Lux, provided no movement is detected Immediately upon status change from no movement to movement and the other way around
Enclosure	Basic enclosure: Material ABS, colour black Cover: Material ABS, colour pure white
Ambient temperature	+10°C...+50°C
Protection	IP20
Notice	For constant light control

Detection Range



CEILING MULTI SENSOR

SR-MDS BAT / SR-MDS 24V / SR-MDS NETZSPANNUNG-MAINS

PG1

Type	Art. No. 868MHz*	Art. No. 315MHz
SR-MDS BAT (incl. 3 batteries LS14250)	396462	433396
SR-MDS 24V	396493	433402
SR-MDS Netzspannung/Mains	396486	471909

* for the European market

ACCESSORY

SR-MDS BAT

PG1

Description	Art. No.
Battery LS14250 (3 pcs. required) – transp. by air not possible (IATA Dangerous Goods Regulations)	315098

Ceiling Multi Sensor (solar-powered) – EasySens «

TYPES AVAILABLE

Type	Description
SR-MDS Solar	Ceiling multi sensor for detection of light (proportional daylight) and motion, power supply via solar cell

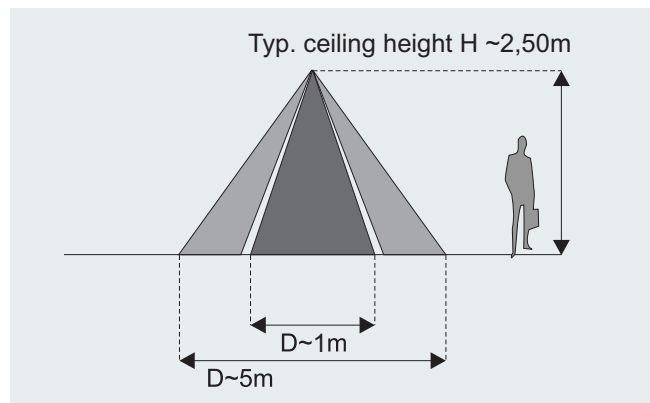
TECHNICAL DATA

Measuring range	0...512Lux (no artificial light)
Detection of motion	PIR (passive infrared)
Detection of measuring values	Every 100 seconds
Transmission interval	Every 100 seconds with changes of brightness >10Lux or switching-off of motion sensor Every 1000 seconds with changes of brightness <10Lux or if no motion is detected
Enclosure	Material PC, colour pearl white, similar to RAL1013
Ambient temperature	+10°C...+50°C
Protection	IP50
Notice	Not for constant light control



SR-MDS Solar

Detection Range



CEILING MULTI SENSOR

SR-MDS SOLAR

PG1

Type	Art. No. 868MHz*	Art. No. 315MHz
SR-MDS Solar	361651	407410

* for the European market

» EasySens – Outdoor Light Sensor



SR65 Li

TYPES AVAILABLE

Type	Description
SR65 Li	Outdoor light sensor

TECHNICAL DATA

Measuring ranges	300...30.000Lux (range 1, standard) resolution 117Lux 600...60.000Lux (range 2, adjustable via jumpers) resolution 234Lux
Detection of values	Every 10 seconds
Transmission interval	Every 10 seconds with changes of brightness >468Lux in range 1 Every 10 seconds with changes of brightness >1170Lux in range 2 Every 1000 seconds with changes of brightness <468Lux in range 1 Every 1000 seconds with changes of brightness <1170Lux in range 2
Enclosure	Material PC, colour grey (bottom), colour chrystal clear (cover)
Ambient temperature	-20°C...+55°C
Protection	IP65

OUTDOOR LIGHT SENSOR

SR65 Li

PG1

Type	Art. No. 868MHz*	Art. No. 315MHz
SR65 Li	306294	432009

* for the European market



SRG01
Aluminium, steel grey painted



SRG01
Aluminium, pure white painted



SRG01
Stainless steel

TYPES AVAILABLE

Type	Description
SRW01	Window contact for status monitoring of windows and doors
SRG01	Window handle for status monitoring of windows

TECHNICAL DATA SRW01

Detection principle	Status changes of internal reed contact
Transmission interval	Upon status changes, additionally every 1000 seconds
Enclosure	ABS, colour pure white, similar RAL9003
Ambient temperature	-25°C...+65°C
Protection class	IP40

TECHNICAL DATA SRG01

Design	Aluminium steel-grey painted, Aluminium pure white painted, stainl. steel
Transmission interval	Upon actuation of window handle
Energy harvesting source	By maintenance-free, electrodynamic energy generator
Ambient temperature	0°C...+30°C
Notice	Side stop including precise position lock Automatic lock against unauthorized moving of window fittings and torsion of the square bolt from outsided Also as sliding door handled Lockable (optional)



SRW01



SRW01 315MHz

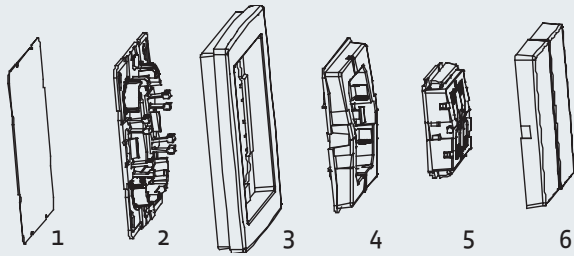
WINDOW CONTACT / WINDOW HANDLE

SRW01 / SRG01			PG1
Type	Art. No. 315MHz	Art. No. 868MHz*	
SRW01	407366	248051	
SRG01 Aluminium steel grey	on request	362948	
SRG01 Aluminium pure white	on request	362931	
SRG01 Stainless steel	on request	362955	

* for the European market

» EasySens – Wireless Switch

Principle Construction



- 1 adhesive foil 2 base plate 3 switch frame
4 intermediate frame 5 transmitting module
6 actuating rocker

As for the miniature wireless switches, the base plate is integrated in the switch frame, no intermediate frame is needed.

Suitable Switch Programmes

EasySens ABB/Busch-Jaeger:

Solo, Future-linear, Carat, Axcnt

Jung:

LS990, LS-design

Wireless switch 55x55

Berker: S1, B1, B3, B7 Glas

Elso: Riva, Scala, Fashion

Feller: Edizio Due

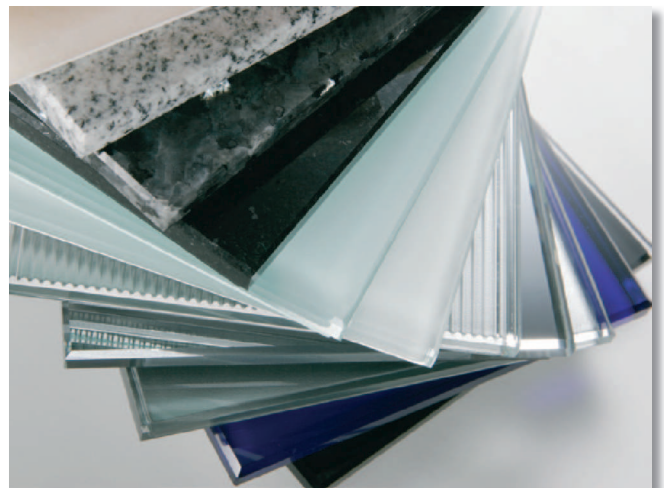
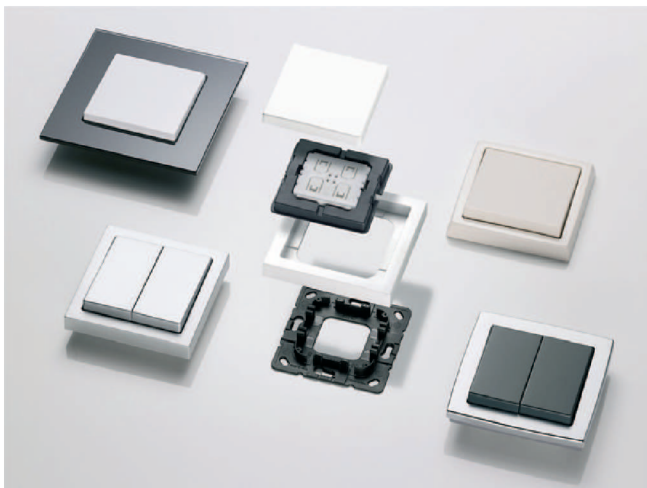
Gira: Standard55, E2, Event, Esprit

Jung: A500, AS500, Aplus, A creation

Merten: M-Smart, M-Arc, M-Plan

Peha: Aura

Siemens: Delta-Profil, Delta-Style, Delta-Miro, Delta-Vita, Delta-Line



By means of the wireless switches EasySens Busch-Jaeger, Jung and Easyfit a wireless control of EnOcean-based receivers and other consumers connected is feasible.

A wireless signal is produced when pressing and releasing a button. Dimmer and blind control can be realised by evaluating the switch status of the receivers.

The power generation of the wireless switch inserts is made by a maintenance-free electrodynamic energy generator.

The central plate of the switch inserts can be glued or screwed and thus be easily mounted to glass or plaster. The integration into the switch frame is done by a special intermediate frame.

Mini

The wireless switch series Mini is a cost-effective design option made by Thermokon.

Busch-Jaeger

The wireless switch insert Busch-Jaeger fits into the switch frames of the manufacturer Busch-Jaeger.

Jung

The wireless switch insert Jung fits into the switch programmes Jung LS990 and LS-design.

55X55

The universal wireless switch insert 55x55 fits to numerous switch frames with 55x55mm inserts of different manufacturers. Please note: Frames made of solid metal can reduce the transmission range.



2-channel light,
pure white glossy



4-channel blind,
pure white glossy



2-channel light,
aluminium



2-channel blind,
anthracite

TYPES AVAILABLE

Type	Model	Colour available
2-channel	Light or blind	pure white glossy, aluminium, anthracite
4-channel	Light or blind	pure white glossy, aluminium, anthracite

TECHNICAL DATA

Energy harvesting	Maintenance-free, electrodynamic energy generator
Dimensions	61 x 61mm
Mounting	Flat on the surface, glued (by means of included foil) or screw
Printing variants	Wireless switch insert: O I (model light) ^ v (model blind) Special legend feasible
Operating travel	2mm
Operating force	7N (at room temperature)
Switching cycles	>50.000 operations
Ambient temperature	-25°C...+65°C
Notice	Prices incl. frame

2-CHANNEL

WIRELESS SWITCH MINI (incl. design frame) PG1

Type	Art. No. 868MHz	Art. No. 315MHz
2-channel light pure white glossy	430647	467858
2-channel light aluminium	430661	467773
2-channel light anthracite	430623	467810
2-channel blind pure white glossy	430630	467841
2-channel blind aluminium	430654	467766
2-channel blind anthracite	430302	467803

4-CHANNEL

WIRELESS SWITCH MINI (incl. design frame) PG1

Type	Art. No. 868MHz	Art. No. 315MHz
4-channel light pure white glossy	430838	456821
4-channel light aluminium	430852	467797
4-channel light anthracite	430814	467834
4-channel blind pure white glossy	430821	456838
4-channel blind aluminium	430845	467780
4-channel blind anthracite	430807	467827

» EasySens – Wireless Switch Busch-Jaeger



4-channel blind, studio white, Future-linear



2-channel light, ivory-white, Future-linear



4-channel light, alu-silver, Future-linear



2-channel blind, anthracite, Future-linear

TYPES AVAILABLE

Type	Model	Colours available
2-channel	Light or blind	studio white, ivory white, alu silver, anthracite
4-channel	Light or blind	studio white, ivory white, alu silver, anthracite

TECHNICAL DATA

Switch programmes	Solo, Future-linear, Carat, Axcnt
Energy harvesting source	Maintenance-free, electrodynamic energy generator
Mounting	Glued (double-sided mounting film enclosed) or screwed to flat surface
Printing variants	Wireless switch insert: O I (light) ^ v (blinds) special printing available
Operating travel	2mm
Operating force	7N (at room temperature)
Switching cycles	>50.000 operations
Ambient temperature	-25°C...+65°C
Notice	Studio white matt and black matt on request Same prices for switch frames Solo, Future and Axcnt. Carat on request Prices incl. frames Gira E2. When ordering other switch programmes, please specify colour

2-CHANNEL

WIRELESS SWITCH BUSCH-JAEGER (incl. frame Future-linear) PG1

Type	Art. No. 868MHz	Art. No. 315MHz
2-channel light studio white	342971	485371
2-channel light ivory white	342858	406925
2-channel light alu silver	338783	406963
2-channel light anthracite	324571	406932
2-channel blind studio white	469630	505000
2-channel blind ivory white	469661	505031
2-channel blind alu silver	459548	469555
2-channel blind anthracite	469593	505048

4-CHANNEL

WIRELESS SWITCH BUSCH-JAEGER (incl. frame Future-linear) PG1

Type	Art. No. 868MHz	Art. No. 315MHz
4-channel light studio white	342988	406574
4-channel light ivory white	365529	406949
4-channel light alu silver	327404	458023
4-channel light anthracite	324595	406956
4-channel blind studio white	469647	505086
4-channel blind ivory white	469685	505109
4-channel blind alu silver	469586	505116
4-channel blind anthracite	469609	469616



4-channel light,
alpin white, LS990



2-channel blind,
white, LS-design



2-channel light,
light grey, LS990



2-channel light,
black, LS990

TYPES AVAILABLE

Type	Model	Colours available
2-channel	Light or blind	white, alpin white, light grey, black
4-channel	Light or blind	white, alpin white, light grey, black

TECHNICAL DATA

Switch programmes available	LS990 and LS-design
Energy harvesting source	Maintenance-free, electrodynamic energy generator
Mounting	Glued (double-sided mounting film enclosed) or screwed to flat surface
Printing variants	Wireless switch insert: O I (model light) ^ v (model blind) Special legend feasible
Operating travel	2mm
Operating force	7N (at room temperature)
Switching cycles	>50.000 operations
Ambient temperature	-25°C...+65°C
Notice	LS990 aluminium varnished and stainless steel varnished on request Switch programme LS-design on request Prices incl. frames LS990

2-CHANNEL

WIRELESS SWITCH JUNG (incl. frame LS990) PG1

Type	Art. No. 868MHz
2-channel light alpin white	435376
2-channel light white	435390
2-channel light light grey	435413
2-channel light black	435437
2-channel blind alpin white	435383
2-channel blind white	435406
2-channel blind light grey	435420
2-channel blind black	435444

4-CHANNEL

WIRELESS SWITCH JUNG (incl. frame LS990) PG1

Type	Art. No. 868MHz
4-channel light alpin white	435451
4-channel light white	435475
4-channel light light grey	435499
4-channel light black	435512
4-channel blind alpin white	435468
4-channel blind white	435482
4-channel blind light grey	435505
4-channel blind black	435529

» EasySens – Wireless Switch 55x55



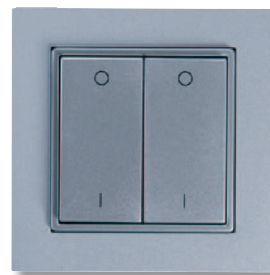
2-channel blind,
pure white, Gira E2 pure white



2-channel light,
aluminium, Gira E2 aluminium



4-channel blind,
anthracite, Gira E2 anthracite



4-channel light,
aluminium, Gira E2 aluminium

TYPES AVAILABLE

Type	Model	Colours available
2-channel	Light or blind	Pure white, pure white glossy, aluminium, anthracite
4-channel	Light or blind	Pure white, pure white glossy, aluminium, anthracite

TECHNICAL DATA

Energy harvesting source	Maintenance-free, electrodynamic energy generator
Mounting	Glued (double-sided mounting film enclosed) or screwed to flat surface
Labeling variants	Wireless switch insert: O I (light) ^ v (blinds)
Operating travel	2mm
Operating force	7N (at room temperature)
Switching cycles	>50.000 operations
Ambient temperature	-25°C...+65°C
Notice	Prices incl. frames Gira E2. When ordering other switch programmes, please specify colour

2-CHANNEL

WIRELESS SWITCH 55x55 (incl. frame Gira E2) PG1

Type	Art. No. 868MHz
2-channel light pure white	302852
2-channel light pure white glossy	363051
2-channel light aluminium	302807
2-channel light anthracite	302814
2-channel blind pure white	302845
2-channel blind pure white glossy	364577
2-channel blind aluminium	302821
2-channel blind anthracite	302838

4-KANAL

WIRELESS SWITCH 55x55 (incl. frame Gira E2) PG1

Type	Art. No. 868MHz
4-channel light pure white	302883
3-channel light pure white glossy	363068
4-channel light aluminium	302869
4-channel light anthracite	302876
4-channel blind pure white	302913
4-channel blind pure white glossy	364591
4-channel blind aluminium	302890
4-channel blind anthracite	302906



Hand-held transmitter
4-channel



SR-KCS



SR06-KCS

TYPES AVAILABLE

Type	Description
Hand-held 4-channel	Control of EnOcean-based receivers and connected consumers
SR-KCS	Control of lighting and air-conditioning based on room occupancy
SR06-KCS	Control of lighting and air-conditioning based on room occupancy

TECHNICAL DATA HAND-HELD TRANSMITTER

Energy harvesting source	Maintenance-free, electrodynamic energy generator
Legend	A B C D
Operating travel	2mm
Operating force	7N (at room temperature)
Switching cycles	>50.000 operations
Ambient temperature	-25°C...+65°C

TECHNICAL DATA SR-KCS

Energy harvesting source	Maintenance-free, electrodynamic energy generator
Mounting	Glued (double-sided mounting film enclosed) or screwed to flat surface
Switching cycles	>50.000 operations
Enclosure	Material PC, colour pure white
Dimensions (LxWxH)	114mm x 70mm x 35mm (max. height)
Ambient temperature	-25°C...+65°C

TECHNICAL DATA SR06-KCS

Energy harvesting source	Maintenance-free, electrodynamic energy generator
Mounting	Glued (double-sided mounting film enclosed) or screwed to flat surface
Switching cycles	>50.000 operations
Enclosure	Material PC, colour pure white
Dimensions (LxWxH)	82mm x 82mm x 15mm (max. height)
Ambient temperature	-25°C...+65°C

HAND-HELD TRANSMITTER 4-CHANNEL

HAND-HELD TRANSMITTER			PG1
Type	Art. No. 868MHz*	Art. No. 315MHz	
Hand-held transmitter 4-channel	314602	433358	

WIRELESS KEY CARD ACTIVATED SWITCHES

SR-KCS / SR06-KCS			PG1
Type	Art. No. 868MHz*	Art. No. 315MHz	
SR-KCS	380317	446426	
SR06-KCS	399449	-	

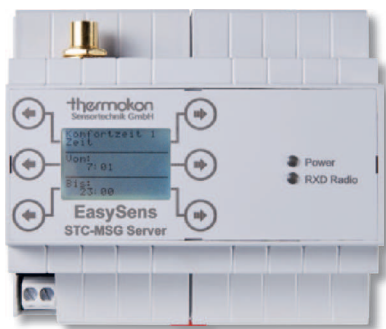
» EasySens – Wireless Valve Actuator / Heating Circuit Controller

TYPES AVAILABLE

Type	Description
SAB02 «NEW»	Wireless valve actuator for bidirectional communication. The SAB02 combines actuator drive, controller and transducer.
STC-MSG Server «NEW»	Wirelessly controlled heating regulator for operation of up to 16 valve actuators SAB02 in connection with the wireless room operating units SR04, SR04, SR07 and thanos. Furthermore, it is feasible to make use of the function "energy stop" by seamlessly connecting window contacts and -handels SRW01/SRG01.



SAB02



STC-MSG Server

TECHNICAL DATA SAB02

Functions and features	Frost protection 8°C, wake-up times parameterized, base set point for inherent regulation parameterized, window-open function can be activated
Operating mode	Actuator or inherent regulation
Motorized actuator	battery powered, synchronous with electronic turn-off, low-noise operation, status message for battery status via RF technology
Regulating distance	max. 3mm, automatic adaption by initialisation
Regulating time	5 s / mm
Mounting	by click lock to radiator valve of many reputed manufacturer
Behavior in case of RF interruption	Changing-over to inherent regulation, until radio signal is back
Failure message	via RF technology
Ambient temperature	0°C...+50°C
Protection	IP40
Included standard accessories	Adaptors for RAV, RAVL, Danfoss RA, (other adaptors on request) 2 batteries (AA)

TECHNICAL DATA STC-MSG SERVER

Transm./receiv. chann.	16
Time switch	Integrated, 8 timer clocks, week programme, buffered, with power reserve >24h
Terminal clamp	Screwing terminal, max. 1,5mm ²
Supply voltage	80-240V AC
Ambient temperature	0°C...+50°C
Protection	IP20
Incl. stand. accessory	External receiving antenna 2,5m

VALVE ACTUATOR / HEATING CIRCUIT CONTROLLER

SAB02 / STC-MSG SERVER	PG1	
Type	Art. No. 868MHz*	Art. No. 315MHz
SAB02	470476	474597
STC-MSG Server	501590	501164

* for the European market

ACCESSORIES

STC-MSG SERVER		PG1
Description	Art. No.	
ANT10	Antenna extension cable 10m	257206
ANT20	Antenna extension cable 20m	257213

RECEIVERS WITH DIGITAL OUTPUTS

HEATING / FAN / AIR-CONDITIONING		PG1	
Type		Art. No. 868MHz*	Art. No. 315MHz
SRC-DO 24V Typ1 Heating w. PWM-output	Thermostat control in living spaces, heating with PWM output, floating change-over contact, supply voltage 24V AC/DC	263733	-
SRC-DO 230V Typ1 Heating w. PWM-output	Thermostat control in living spaces, heating with PWM output, non-floating change-over, supply voltage 100-240V AC	283427	-
SRC-DO 24V Typ2 Signaling contact	Signaling contact for evaluation of up to 10 window/door contacts SRW01, floating change-over contact, supply voltage 24V AC/DC	270946	-
SRC-DO 230V Typ2 Signaling contact	Signaling contact for evaluation of up to 10 window/door contacts SRW01, non-floating change-over contact, supply voltage 100-240V AC	298391	-
SRC-DO 24V Typ3 Hygrostat control	Hygrostat control in living spaces, floating change-over contact, supply voltage 24V AC/DC	293853	-
SRC-DO 230V Typ3 Hygrostat control	Hygrostat control in living spaces, non-floating change-over contact, supply voltage 100-240V AC	304948	-
SRC-DO 24V Typ4 Heating ON/OFF	Thermostat control in living spaces, heating with 2-point output, floating change-over contact, supply voltage 24V AC/DC	325103	-
SRC-DO 230V Typ4 Heating ON/OFF	Thermostat control in living spaces, heating with 2-point output, non-floating change-over contact, supply voltage 100-240V AC	304931	-
SRC-DO 24V Typ6 Release of fan	Control of fresh air supply in living spaces with parallel operation of an exhaust air system and an open fireplace, floating change-over contact, supply voltage 24V AC/DC	415330	-
SRC-DO 230V Typ6 Release of fan	Control of fresh air supply in living spaces with parallel operation of an exhaust air system and an open fireplace, non-floating change-over contact, supply voltage 100-240V AC	415323	-
SRC-DO2 24V Typ1 Heating/cooling with PWM output	Thermostat control in living spaces, heating and cooling with PWM output, 2x non-floating change-over contact, supply voltage 24V AC/DC	290111	504102

RECEIVERS WITH ANALOGUE OUTPUTS

HEATING / FAN / AIR-CONDITIONING		PG1	
Type		Art. No. 868MHz*	Art. No. 315MHz
SRC-AO Climate V Heating/cooling	Temperature control in living spaces, one output 0-10V, supply voltage 24V AC/DC	508278	508292
SRC-AO Climate VV Heating/cooling	Temperature control in living spaces, two outputs 0-10V, supply voltage 24V AC/DC	508285	508308
SRC-AO Multi V Multi actuator	Multifunctional actuator for output of different values (temperature, humidity, setpoint...) via one 0-10V output, supply voltage 24V AC/DC	508315	508339
SRC-AO Multi VV Multi actuator	Multifunctional actuator for output of different values (temperature, humidity, setpoint...) via two 0-10V outputs, supply voltage 24V AC/DC	508322	508346

SWITCH-/DIM RECEIVERS

LIGHTING / BLIND		PG1	
Type		Art. No. 868MHz*	Art. No. 315MHz
SRC-AO Dim V 1-fold dim actuat.	For control of one 1-10V dim actuator resp. EVG, seamless connection of up to 32 wireless switches, supply voltage 24V AC/DC	499606	504096
SRC-AO Dim VV 2-fold dim actuat.	For control of two 1-10V dim actuators resp. EVG, seamless connection of up to 32 wireless switches, supply voltage 24V AC/DC	502931	504089
SRC-DO Lighting 230V	For switching of lighting – seamless connection of up to 30 wireless switches	335027	-
SRC-DO Blind 230V	For control of blinds/shutters – seamless connect. of up to 30 wireless switches	335034	-

* for the European market



SRC-DO / SRC-AO
(printing varies)

» EasySens – Universal Receivers

UNIVERSAL RECEIVERS WITH ANALOGUE AND DIGITAL OUTPUTS

0-10V / RELAY

PG1

Type		Art. No. 868MHz*	Art. No. 315MHz
SRC-ADO 4AA/2DA Typ1	For connection of EasySens sensors or wireless switches, 4 analogue outputs 0-10V, 2 relais outputs 230V-6A, dimming-heating-cooling (PI), incl. external receiving antenna 2,5m	267502	398015
SRC-ADO 4AA/4DA Typ1	For connection of EasySens sensors or wireless switches, 4 analogue outputs 0-10V, 4 relais outputs, 230V-6A, dimming-heating-cooling (PI), incl. external receiving antenna 2,5m	273275	398022
SRC-ADO 4AA/2DA Typ2	For connection of EasySens sensors or wireless switches, 4 analogue outputs 0-10V, 2 relais outputs 230V-6A, with fan coil controller and change-over function, heating/cooling (PI), incl. external receiving antenna 2,5m	423236	423335
SRC-ADO 4AA/4DA Typ2	For connection of EasySens sensors or wireless switches, 4 analogue outputs 0-10V, 4 relais outputs, 230V-6A, with fancoil controller and change-over function, incl. external receiving antenna 2,5m	423243	423328

UNIVERSAL RECEIVERS WITH DIGITAL OUTPUTS

RELAY

PG1

Type		Art. No. 868MHz*	Art. No. 315MHz
SRC-DO8 100-240V Type1 Heating/cooling with PWM-output	For heating/cooling control, evaluation of EasySens sensors and control of up to 8 thermal actuators via floating relay outputs with programmable switching times, supply voltage 100-240V, incl. external receiving antenna 2,5m	396509	398008
SRC-DO8 100-240V Type2 Fan coil, Heating/cooling with PWM output	Fan coil controller for up to 3 fan stages, additionally with 3 to 5 outputs with easy switch function (e.g. as signalling contact or for light/blind control), with progammable switching times, supply volt. 100-240V, incl. ext. antenna 2,5m	424066	424080
SRC-DO8 100-240V Type3 Switch actuator	With 8 relay outputs for switching of lighting and control of blinds/shutters and as signaling contact for connection to superior control systems, with progammable switching times, supply voltage 100-240V, incl. external receiving antenna 2,5m	424059	424073

* for the European market

ACCESSORIES

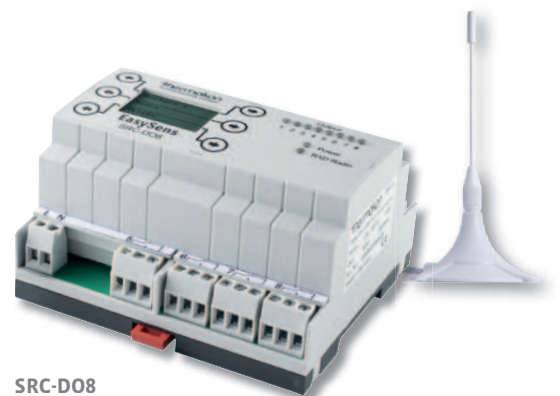
UNIVERSAL RECEIVERS

PG1






Description		Art. No.
ANT10	Antenna extension cable 10m, for SRC-ADO and SRC-DO8	257206
ANT20	Antenna extension cable 20m, for SRC-ADO and SRC-DO8	257213



SRC-ADO



SRC-DO8

RECEIVERS (GATEWAYS)			
FOR BUS SYSTEMS			
Type		Art. No. 868MHz*	Art. No. 315MHz
SRC65-RS485 EVC	With serial interface RS485, unidirectional interface “Multiple Access”, IP42-enclosure, for connection of EasySens sensors or wireless switches to different controllers with RS485 interface, incl. external receiving antenna 2,5m	387248	397896
SRC65-RS485 MODBUS	 With serial interface RS485, MODBUS protocol, IP42-enclosure, for evaluation of EasySens sensors or wireless switches, incl. external receiving antenna 2,5m	387231	397902
SRC65-BACnet	 For seamless connection of up to 32 EasySens sensors or wireless switches to the BACnet bus, incl. external receiving antenna 2,5m	396431	397919
SRC65-MPBus	 With MPBus interface, IP42-housing, for evaluation of up to 8 EasySens sensors or wireless switches, transmission of free programmable telegram with 8 addresses, incl. external receiving antenna 2,5m	468145	468190
SRC-Dali	Gateway between EasySens wireless switches and the Dali bus, for individual lighting control and call off of saved light scenes, incl. external receiving antenna 2,5m	460934	460941
SRC-CLC-Dali	Receiver with Dali output for constant light control via a Dali controller in connection with the EasySens ceiling multi sensor SR-MDS and/or EasySens wireless switches and/or bidirectional gateways, incl. external receiving antenna 2,5m	460910	460927
SRC-KNX	 For connection of up to 32 EasySens sensors or wireless switches to the EIB/KNX-Bus	312424	-
SRC-KNX ext. Antenne	 For connection of up to 32 EasySens sensors or wireless switches to the EIB/KNX bus, incl. external receiving antenna 2,5m	444125	-

* for the European market

ACCESSORIES			
RECEIVERS FOR BUS SYSTEMS			
Description		Art. No.	
ANT10	Antenna extension cable 10m, for SRC65, SRC-Dali / KNX ext. Antenne	257206	
ANT20	Antenna extension cable 20m, for SRC65, SRC-Dali / KNX ext. Antenne	257213	



SRC65



SRC-KNX






SRC-Dali



SRC-CLC-Dali

» EasySens – Receivers for BUS Systems (Gateways)

RECEIVERS (GATEWAYS)			
FOR BUS SYSTEMS / BIDIRECTIONAL			
Type		Art. No. 868MHz*	Art. No. 315MHz
STC04-FTT	 Uni-/ bidirectional gateway with LON interface FT5000, as receiver for max. 16 sensors or wireless switches, as bidirectional gateway for max. 11 sensors or wireless switches, transmitting of field-programmed telegrams to 11 addresses	415118	-
STC65-FTT	 Uni-/ bidirectional gateway with LON interface FT5000, as receiver for max. 16 sensors or wireless switches, as bidirectional gateway for max. 11 sensors or wireless switches, transmitting of field-programmed telegrams to 11 addresses, IP42-enclosure, incl. external receiving antenna 2,5m	393904	397926
STC65-RS485 EVC	With serial interface RS485, bidirectional interface “Multiple Access”, IP42-enclosure, for connection of up to 32 EasySens sensors or wireless switches to different controllers with RS485 interface, transmitting of field-programmed telegrams to 127 addresses, incl. ext. receiving antenna 2,5m	393898	397933
STC65-RS485 MODBUS	 With interface RS485, MODBUS protocol, IP42 enclosure, for evaluation of up to 32 EasySens sensors or wireless switches, transmitting of field-programmed telegrams to 8 addresses, incl. external receiving antenna 2,5m	385695	397940
STC-Ethernet	With Ethernet interface, bidirectional gateway for evaluation of up to 30 EasySens sensors or wireless switches, incl. external receiving antenna 2,5m	403191	467445

ACCESSORIES			
RECEIVERS FOR BUS SYSTEMS / BIDIRECTIONAL			
Description		Art. No.	
ANT10	Antenna extension cable 10m, for STC65 and STC-Ethernet	257206	
ANT20	Antenna extension cable 20m, for STC65 and STC-Ethernet	257213	

* for the European market



STC04-FTT



STC-Ethernet



STC65



TYPES AVAILABLE

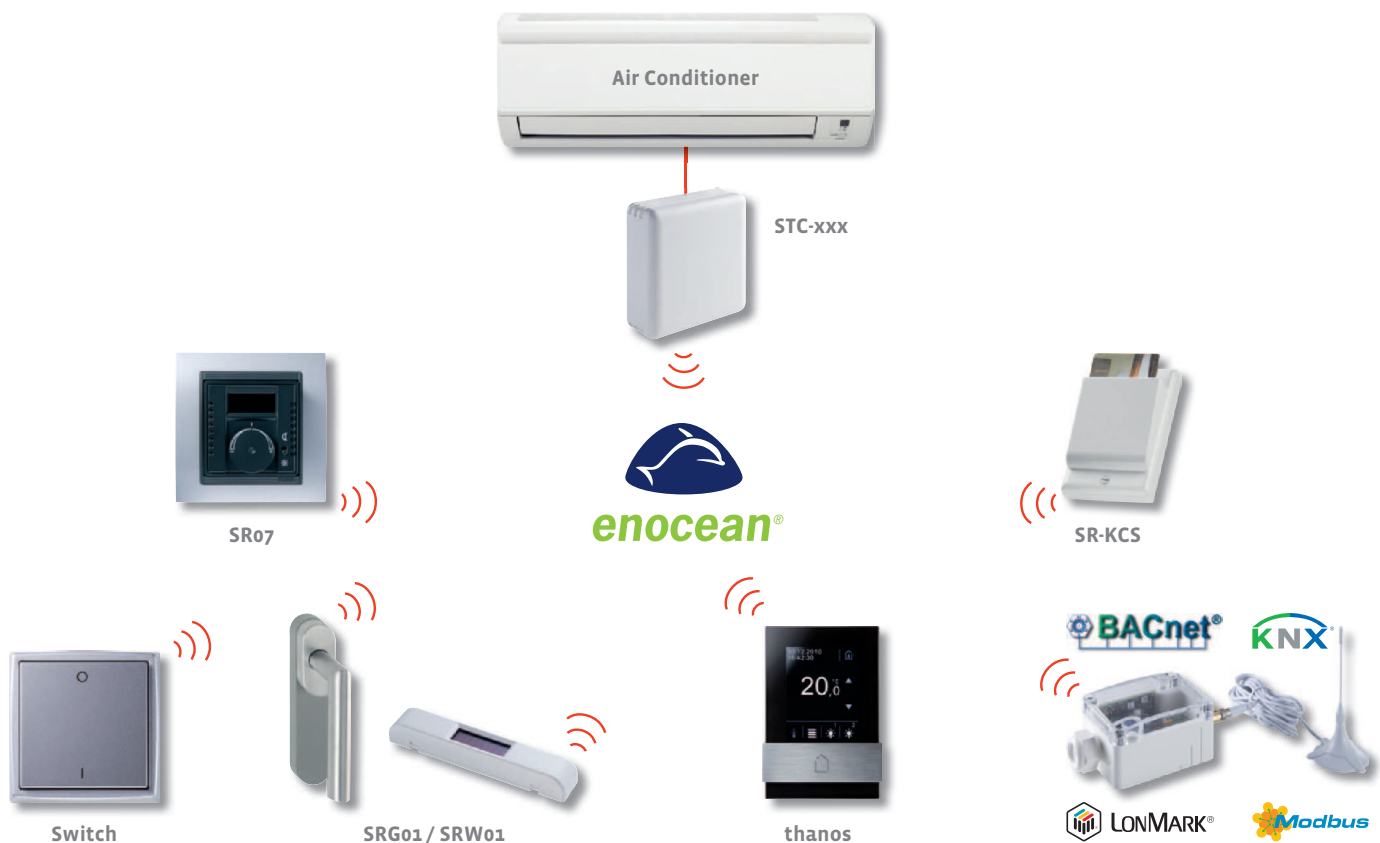
Type	Description
STC-Daikin	Bidirectional gateway for combination of Daikin split unit air conditioners with Easy Sens wireless sensors and integration of these air conditioners in standard BUS systems
STC-Mitsubishi	Bidirectional gateway for combination of Mitsubishi split unit air conditioners with Easy Sens wireless sensors and integration of these air conditioners in standard BUS systems

TECHNICAL DATA

Supported types Daikin	CTXU25 / CTXU35 / CTXU42 / CTXU50 FTXG25 / FTXG35 / CTXG-50 FDXS25 FDXS35 / FDXS50 / FDXS60 FLXS25 FLXS35 / FLXS50 / FTXR28 FTXR42 FTXR50 / FTXS20 / FTXS25 FTXS35 FTXS42 FTXS50 / FTXS60 FTXS71 FVXS25 / FVXS35 / FVXS50
Supported types Mitsubishi	MFZ-KA... / MLZ-KA... / MSZ-KA... MSZ-FD... / MSZ-GA... / MSZ-GB... MSZ-GC... / MSZ-GE... / MSZ SF... PCA-RP GA / PCA-RP KA / PEA RP200... PEA-RP400... / PEAD-JA... / PEAD-RP... PEFY-P XX VMA-E / PEH-RP200-250... PKA-RP35-50HAL / PKA-RP60-71-100KAL PKA RP100FAL / PLA-RP AA2 / PLA-RP BA PSA... / SEZ-KA... / SEZ-KD... / SLZ-KA...
For complete compatibility list please see www.thermokon.de	
Power supply	12V (supply via split unit)
Power consumption	Typ. 35mA
Ambient temperature	-25°C...+85°C
Enclosure	Material ABS, colour white
Protection	IP20

GATEWAYS FOR AIR CONDITIONERS

GATEWAYS FOR AIR CONDITIONERS		PG1
Type	Art. No. 868MHz*	Art. No. 315MHz
STC-Daikin	460972	460989
STC-Mitsubishi	460958	460965
STC-Daikin Sky/VRV	«NEW»	on request
STC-Mitsubishi Heavy	«NEW»	on request
STC-Panasonic Domestic (Etherea)	«NEW»	on request
STC-Panasonic FS/FSM (VRF)	«NEW»	on request
STC-Fujitsu General	«NEW»	on request
STC-Hitachi	«NEW»	on request



» EasySens – Binary Module / Energy Meter



SR65 DI



SR-MI

TYPES AVAILABLE

Type	Description
SR65 DI	Binary module for transmission of binary switching status
SR-MI	Wireless module for evaluation of SO signals

TECHNICAL DATA SR65 DI

Digital input	Two wire connector for floating contacts, contact current max. 0,5mA, contact resistance max. 1000Ohm
Transmission interval	Upon status changes of the input, additionally every 1000 seconds
Power supply	Battery type LS14250, 3,6V
Terminal clamp	Screwing terminal, max. 1,5mm ²
Ambient temperature	-25°C...+65°C
Enclosure	Material PA6, colour pure white (similar RAL9010), quick release fastener screws
Protection	IP65
Notice	Only available as battery-powered type

TECHNICAL DATA SR-MI

Inputs	3 So-interface input
Supply voltage	100-240V AC (±10%)
Power consumption	Typ. 0,2W / 0,4VA
Connecting terminal	Screwing terminal, max. 1,5mm ²
Ambient temperature	0°C...+50°C
Enclosure	Snap-in mounting on DIN rail accord. to DIN EN 50022, material ABS, dimensions LxBxH 53x90x65mm
Notice	Incl. ext. receiving antenna 2,5m

BINARY MODULE

SR65 DI	PG1	
Type	Art. No. 868MHz*	Art. No. 315MHz
SR65 DI	267731	305228

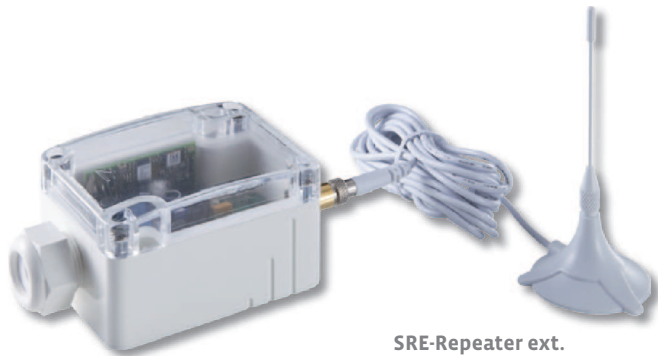
ENERGY METER

SR-MI	PG1	
Type	Art. No. 868MHz*	Art. No. 315MHz
SR-MI	471428	471459

* for the European market



SRE-Repeater



SRE-Repeater ext.

TYPES AVAILABLE

Type	Description
SRE-Repeater/B	Radio telegrams
SRE-Repeater/B ext.	Amplifier for EnOcean radio telegrams, incl. external receiving antenna 2,5m
SRE-Repeater 2-Level	Amplifier (2-Level) for EnOcean radio telegrams
SRE-Repeater 2-Level ext.	Amplifier (2-Level) for EnOcean radio telegrams, incl. external receiving antenna 2,5m

TECHNICAL DATA

Antenna	Internal or external 2,5m
Power supply	230V~
Power consumption	max. 2VA
Cable entry	M20
Enclosure	Material PA6, colour pure white (similar RAL9010), colour crystal clear (cover), quick release fastener screws
Ambient temperature	-20°C...+60°C
Protection	IP65, with ext. antenna IP42

REPEATER

SRE-REPEATER

PG1

Type	Art. No. 868MHz*	Art. No. 315MHz
SRE-Repeater/B	259415	-
SRE-Repeater/B ext. Antenna	362368	433372
SRE-Repeater 2-Level	321686	-
SRE-Repeater 2-Level ext. Antenna	362375	433389

* for the European market

» EasySens – Field Strength Measuring Instruments



EPM120



EPM300

TYPES AVAILABLE

Type	Description
EPM120	Field strength measuring instrument for finding optimal mounting place for transmitter and receiver, display of relevant data of EasySens radio telegrams, with integrated repeater for test installations
EPM300	Field strength measuring instrument for finding optimal mounting place for transmitter and receiver, with integrated repeater for test installations

TECHNICAL DATA EPM120

Included in delivery	USB-Stick Nano (1GB) USB cable 2 batteries (type AA)
Display	Graphic display monochrome, diagonal 5,2cm, LED-lighting can be switched on
Storage	All telegrams received on USB-Stick (>365 days)
Keyboard	4 keys, touch technology
Power supply	2 batteries or rechargeable battery (type AA), USB power supply unit or USB connector of a computer

TECHNICAL DATA EPM300

Included in delivery	2 batteries (type AA)
Display	Upside down LED traffic light for display of signal strength, LED („Valid“) for display of a valid EnOcean telegram
Keyboard	2 sensor keys
Power supply	2 batteries or rechargeable battery

FIELD STRENGTH MEASURING INSTRUMENTS

EPM110 / EPM120 / EPM300	NET PRICES	
	Art. No. 868MHz*	Art. No. 315MHz
EPM120	462006	462013
EPM300	459129	459136

* for European market

0-10V-Gateway / Relay Contacts

The receiver SRC-ADO is designed for seamless connection of wireless EasySens sensors to single room controllers via a standard interface 0-10V or a floating relay contact. The wireless receiver has 4 analogue and up to 4 relay outputs.

By means of the configuration software included different functions can be parameterized.

Among others an averaging of up to 15 temperature sensors is feasible.

A multi stage fan stage control can be realized via a 0-10V output so that the single digital DDC-inputs are unnecessary.

**CONTROLLER
or
CONTROL
TECHNOLOGY
or
LIGHTING**

- 0-10V-signal room temperature
- 0-10V-signal set point temperature
- 0-10V-signal fan stage
- 0-10V-signal outdoor temperature
- Relay contact signal window handle
- Relay contact signal door contact
- Relais contact light switch 1
- Relais contact light switch 2



Receiver SRC-ADO



1 Wireless Switch Busch-Jaeger

Wireless switch with energy generator for light and blind control. Fitting into various switch frames of the manufacturer Busch-Jaeger.



2 SR04

The room operating panel is designed for temperature detection, set point and fan stage adjustment as well as presence message in room and office spaces etc.

3 SRW01

Window contact and window handle for status monitoring of windows.



4 SRG01

5 SR65

Sensor for temperature detection in outdoor areas.



» EasySens – Application

Building Control Technology for Bus Systems

SRC-receivers enable the evaluation of seamlessly connected wireless sensors and the transmission of information via the communication interface (LON, KNX, RS485 Modbus, RS485 EVC, Ethernet or BACnet).



1 SR06-SR07/Switch 55x55

The room sensor is designed for temperature detection (SR06) or local set point adjustment (SR07). SR07 is also available with a slide switch. Wireless switch 55x55 is an universal wireless switch insert with energy generator for light and blind control.



2 SR04

The room operating panel is designed for temperature detection, set point and fan stage adjustment as well as presence message in room and office spaces etc.



3 SR-MDS BAT/24V/80-240V

The ceiling multi sensor is designed for motion and light detection in room and office spaces. For constant light control.



4 SRG01

Window handle and window contact for status monitoring of windows.

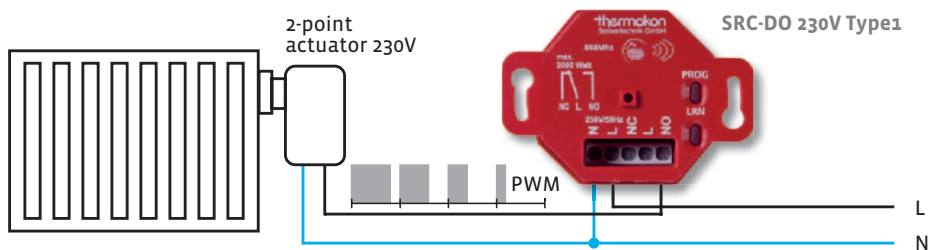
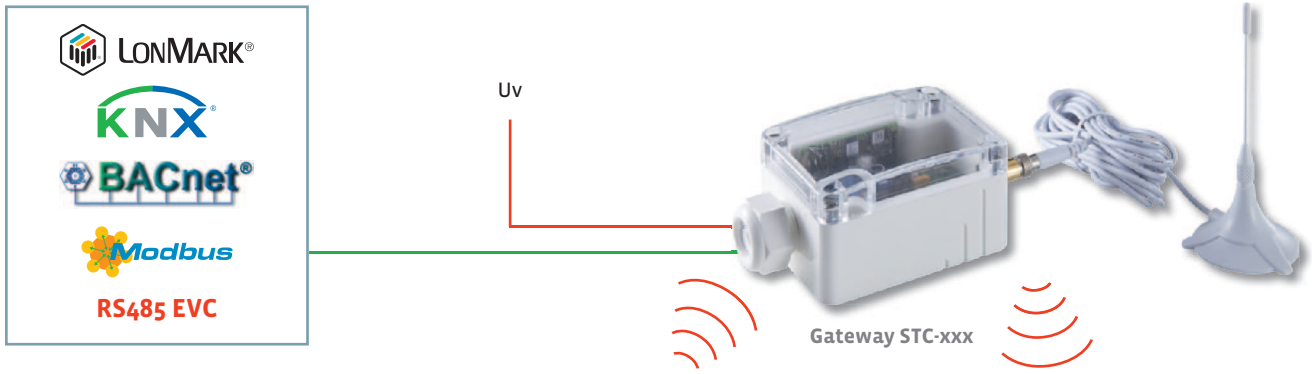
5 SRW01



Wireless Receivers with Transmitting/Receiving Function for Bus Interfaces

TC-receivers enable the receipt and transmission of EnOcean based radio telegrams. For evaluation of seamlessly connected wireless sensors and transmission of information via the communication interface (LON, RS485 Modbus, RS485 EVC, BACnet or KNX).

Moreover, the receivers are designed for superior transmission to wireless actuators with relay or 0-10V outputs (e.g. for time controlled night lowering or switching of blinds or light).



1 SR04

The room operating panel is designed for temperature detection, set point and fan stage adjustment as well as presence message in room and office spaces etc.



2 SR-MDS Solar

The ceiling multi sensor is designed for motion and light detection (proportional daylight) in room and office spaces.



3 SRG01

Window handle for status monitoring of windows.



» EasySens – Application

Thermostat Controller

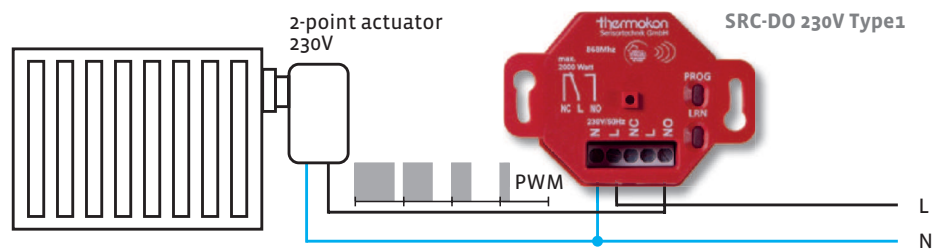
The switch SRC-DO Type 1 is designed for temperature control in room spaces (thermostat function). The floating relay output can be used for direct control of thermic 2-point valves.

Additional Function Energy Stop:

It is possible to make use of the function “energy stop“ by connecting wireless window handles type SRG01 or wireless window contacts type SRW01. Thus, the receiver switches-off the relay contact for the valves in case the window is opened.

Application in Hotels:

If the hotel guest leaves the room, the same is switched wirelessly via the key card activated switch SR-KCS or the wireless socket board.



1 SR04

The room operating panel is designed for temperature detection, set point and fan stage adjustment as well as presence message in room and office spaces etc.

2 SR-KCS

The wireless key card activated switch is designed for an occupancy based control of lighting or air-conditioning (e.g. in hotel or conference rooms).

3 SRG01

Window handle for status monitoring of windows.

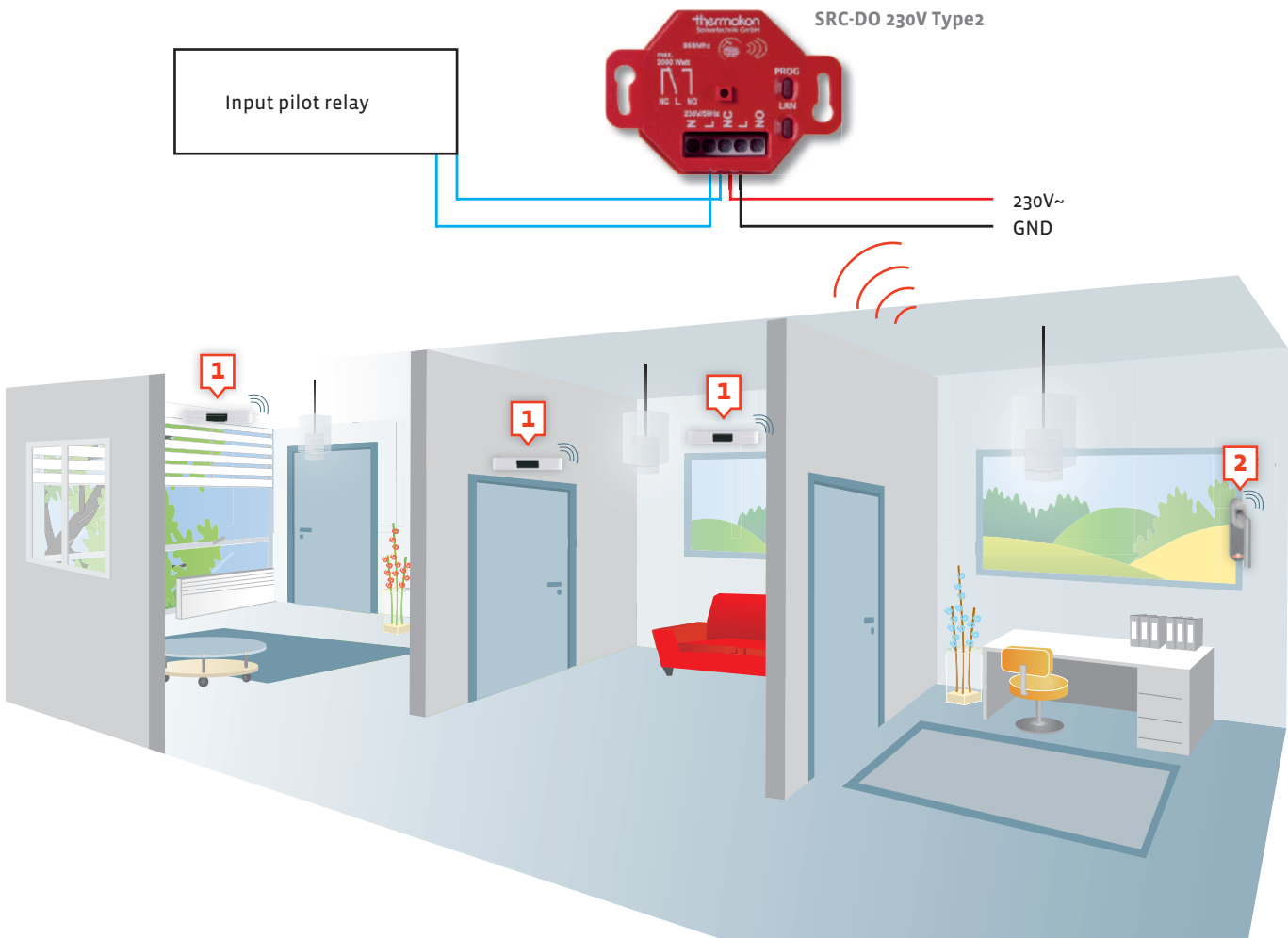


Signal Contact

The switch receiver SRC-DO Type2 is designed for evaluation of wireless window contacts SRW01 and wireless window handles SRG01. Optionally up to 10 wireless window contacts or window handles can be seamlessly connected to one receiver.

Therefore, the relay output of the receiver is designed as a signal output of the sensors. Thus, it can be used as a fault message contact for locking on controllers or monitoring systems.

The relay contact of the receiver is switched as soon as the message “window opened” is sent. All window contacts or window handles connected are logical OR circuit linked, i.e. as soon as any contact reports “window opened”, the relay is switched. In reverse order the relay is only reset if all contacts report “window closed”.



1 SRW01

Window contact for status monitoring of windows and doors.



2 SRG01

Window handle for status monitoring of windows.



Wireless Valve Actuator with Transmitting and Receiving Features

The SAB02 enables the receipt and transmission of radio telegrams corresponding to the EnOcean communication protocol. For evaluation of seamlessly connected wireless sensors. For supervisor transmission to receivers and actuators.



1 SR04 / thanos SR

The room operating units are designed for temperature detection, set point and fan stage adjustment as well as presence message in room and office spaces.



2 STC-MSG Server

Wirelessly controlled heating regulator for operation of up to 16 valve actuators SAB02 in connection with the wireless room operating units SR04, SR04, SR07 and thanos. Furthermore, it is feasible to make use of the function “energy stop” by seamlessly connecting window contacts and -handles SRW01/SRG01.



2 SAB02

The wireless valve actuator is designed for direct heating control.



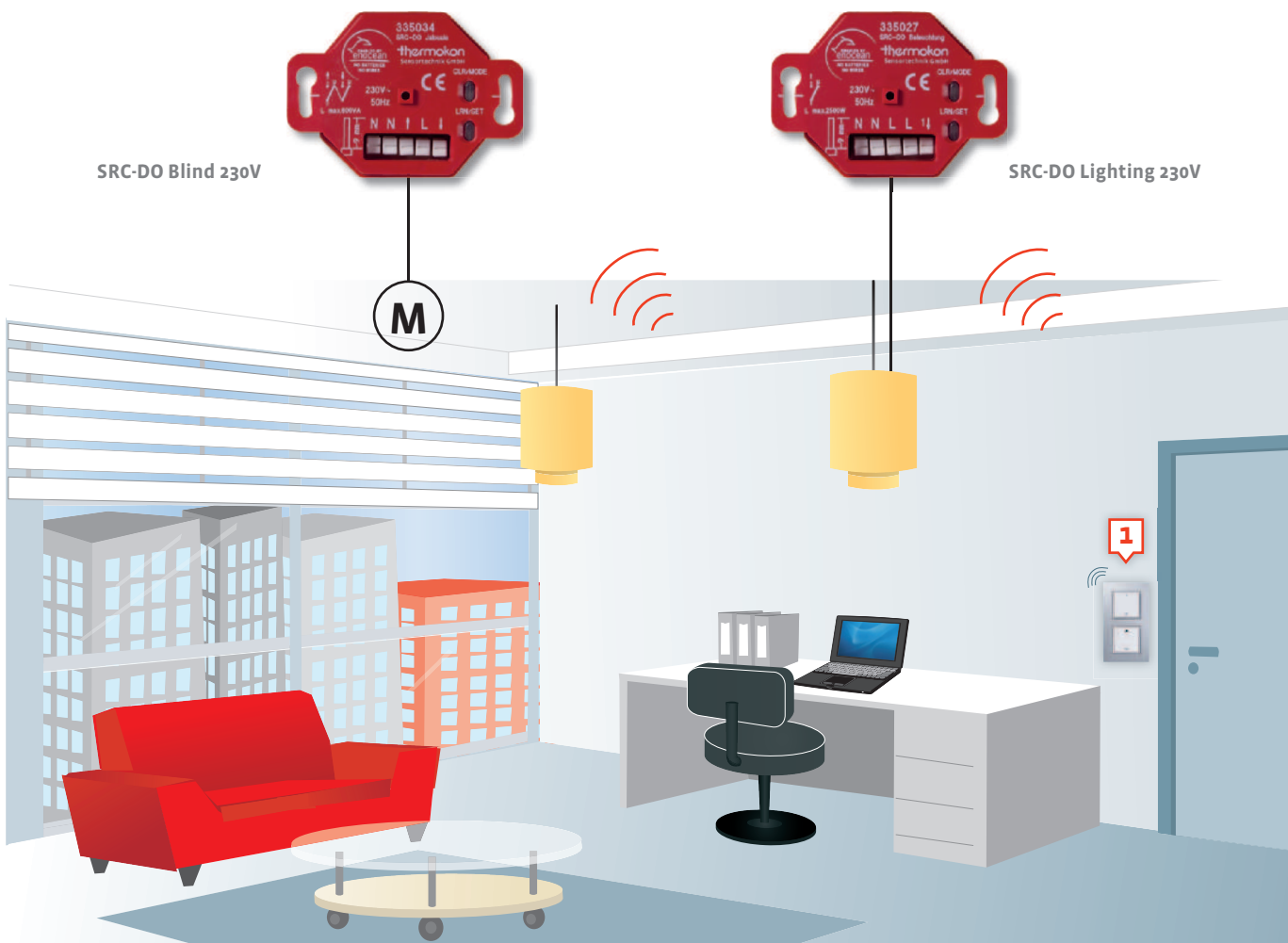
Controlling and Switching of Lighting /Blinds

SRC-DO Lighting 230V:

Seamless connection of up to 32 wireless switches. The switch receiver can also be used for light control in hallways with 8 preset time delays.

SRC-DO Blind 230V:

Seamless connection of up to 32 wireless switches. Adjustment of lamellas feasible. When controlling several blinds/shutters the current positions can be saved as scenes and called-off again.



1 Wireless Switch Busch-Jaeger

Wireless switch insert with energy generator for light and blind control. Fitting into various Busch-Jaeger switch programmes

1 Wireless Switch Mini

Wireless switch with energy generator for light and blind control.

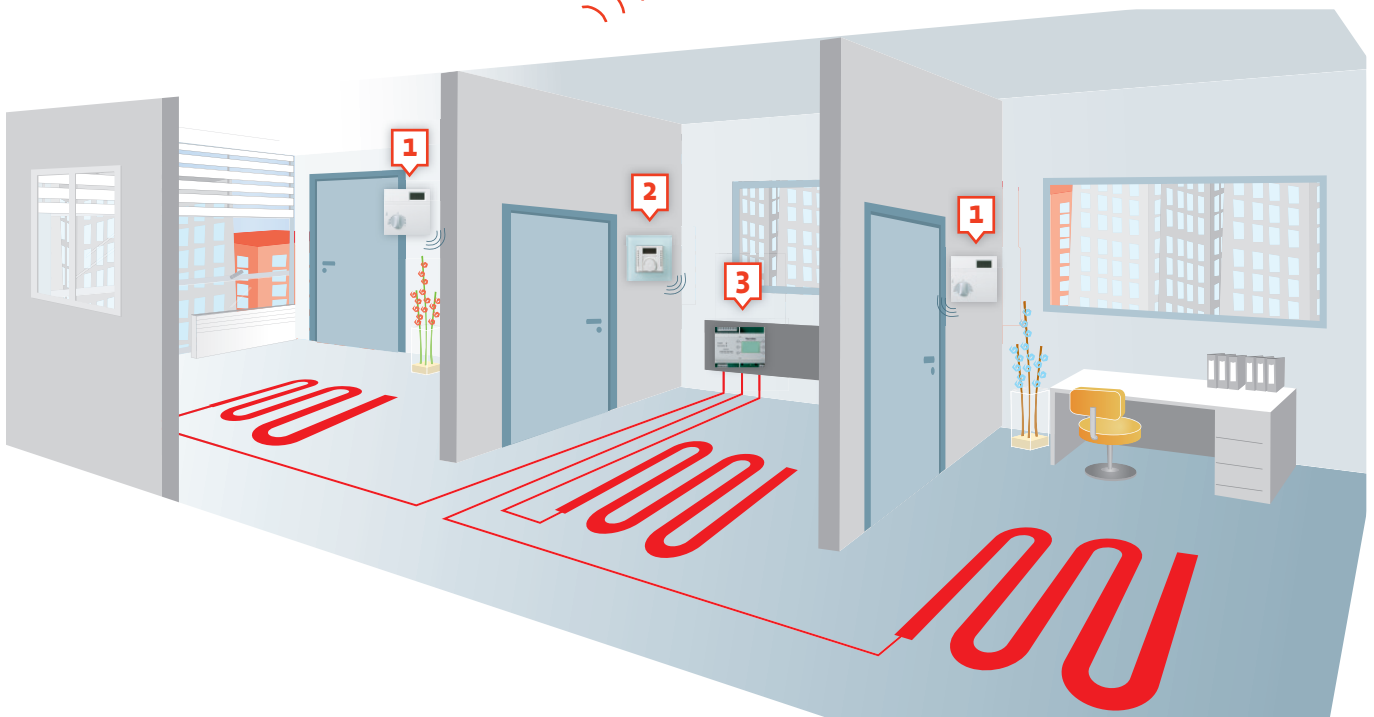
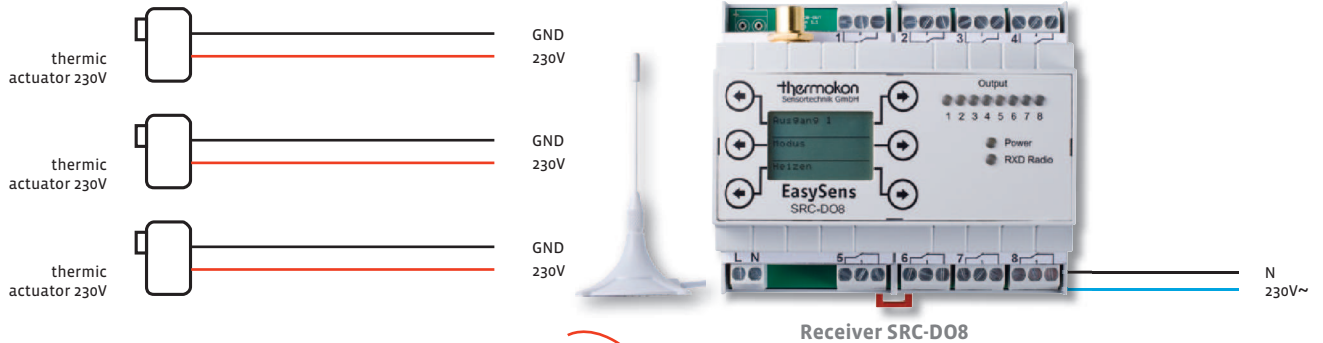


» EasySens – Application

Heating Circuit Distributor for Floor Heating

The receiver SRC-D08 is designed for evaluation of wireless room sensors with control of up to 8 thermic actuators via 230V make and break contacts. For efficient energy saving a time switch is integrated.

Furthermore, it is possible to make use of the function “energy stop” by seamlessly connecting a wireless window contact SRW01 and wireless window handle SRG01, i.e. if the window is opened, the receiver switches-off the relay contact for the valves.



1 SR04

The room operating panel is designed for temperature detection, set point and fan stage adjustment as well as presence message in room and office spaces etc.



2 SR07P

The room operating panel is designed for temperature detection or local set point adjustment. Fitting into various switch frames with 55x55mm insert (Gira, Jung, Berker, Merten, Peha...)



3 SRC-D08

The receiver SRC-D08 (with integrated time switch) is designed for evaluation of wireless room sensors including a control of up to 8 thermic actuators via 230V make and break contacts.

